

Product datasheet for **RG200370**

FAM50A (NM_004699) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: FAM50A (NM_004699) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: FAM50A
Synonyms: 9F; DXS9928E; HXC-26; HXC26; MRXSA; XAP5
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG200370 representing NM_004699
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTCAATACAAGGGCGCCGCGAGCGAGGCGGCCGCGCCATGCACCTGATGAAGAAGCGGGAGAAGC
AGCGCGAGCAGATGGAGCAGATGAAGCAGCGCATCGCGGAGGAGAACATCATGAAATCCAACATTGACAA
GAAGTTCTCTGCGCACTACGACGCGGTGGAGGCAGAGCTCAAGTCCAGCACCGTGGGTCTCGTGACCCTG
AATGACATGAAGCCAAGCAGGAGGCTCTGGTGAAGGAGCGGGAGAAGCAGCTGGCCAAGAAGGAGCAGT
CCAAGGAGCTGCAGATGAAGCTGGAGAAGCTTCGAGAGAAGGAGCGTAAGAAGGAAGCCAAGCGGAAGAT
CTCCAGCCTGTCCCTCACCCCTGGAGGAGGAAGAAGAGGGAGGCGAGGAGGAAGAGGAGGCCGCCATGTAT
GAGGAGGAGATGGAAAGGGAAGAGATCACCCACGAAGAAGAGAAAAGTGGGGAAGAAGCCAGACGTTGACA
CAAGCTTCTTGCCTGATCGAGACCGTGAGGAGGAGGAGAATCGGCTTCGGGAAGAGCTGCGGCAGGAGTG
GGAAGCCAAGCAGGAGAAGATCAAGAGTGAGGAGATCGAGATCACCTTCAGCTACTGGATGGCTCTGGG
CACCGCGGACAGTCAAGATGAGAAAGGCAACACCATGCAGCAGTTCCTGCAGAAGCGCTCGAGATCC
TTCGAAAAGACTTCAGTGAGCTGAGGTCGCGGGTGGAGCAGCTCATGTACATCAAGGAGGACTTGAT
CATCCCTACCATCACAGCTTCTACGACTTCATCGTACCAAGGCACGGGGAAGAGTGGACCACTTTC
AACTTTGATGTTTCATGACGATGTGCGGTTGCTCAGTGACGCCACTGTGGAGAAGGATGAGTCCCATGCAG
GCAAGGTGGTGTGAGGAGCTGGTACGAGAAGAACAAGCATCTTTCCCGCCAGCCGCTGGGAACCCCTA
CGACCCTGAAAAGAAGTGGGACAAGTACACGATCCGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG200370 representing NM_004699
 Red=Cloning site Green=Tags(s)

MAQYKGAASEAGRAMHLMKKREKQREQMEQMKQRIAEENIMKSNIDKKSFAHYDAVEAELKSSTVGLVTL
 NDMKAKQEALVKEREKQLAKKEQSKELQMKLEKLREKERKKEAKRKISSLSFTLEEEEEEGEEEEEAAMY
 EEEMEREEITTKRKLGNPDVDTSFLLPDRDREEEENRLEELRQEWAKQEIKSEEIEITFSYWDGSG
 HRRTVKMRKGNMQFLQKALEILRKDFSELRSAGVEQLMYIKEDLIIPHHHSFYDFIVTKARGKSGPLF
 NFDVHDDVRLSDATVEKDESHAGKVVLRSWYEKKNKHIFPASRWEPEYDPEKKWDKYTIR

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_004699

ORF Size: 1017 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [NM_004699.4](#)

RefSeq Size: 1311 bp

RefSeq ORF: 1020 bp

Locus ID: 9130

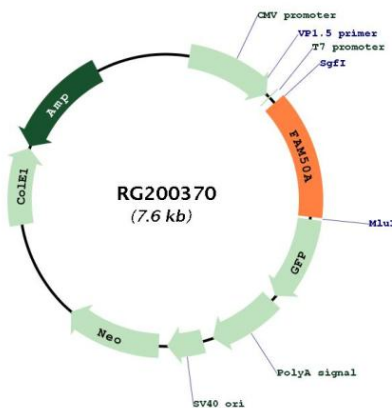
UniProt ID: [Q14320](#)

Cytogenetics: Xq28

Domains: XAP5

Gene Summary: This gene belongs to the FAM50 family. The encoded protein is highly conserved in length and sequence across different species. It is a basic protein containing a nuclear localization signal, and may function as a DNA-binding protein or a transcriptional factor. [provided by RefSeq, Sep 2009]

Product images:



Circular map for RG200370